

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number
WO 2005/086654 A3

(51) International Patent Classification⁷: **C07H 21/04**,
C12N 15/63, 1/21, 5/00, 15/64

[US/US]; 34 Western Way, Princeton, NJ 08540 (US).
HSII, Judy [US/US]; 10913 Cartwright Place, North
Potomac, MD 20878 (US). **OAK, Seachol** [US/US]; 610
Via Del Caballo, San Marcos, CA 92078 (US). **CONTR-
ERAS, Lydia** [US/US]; 700 Warren Road, Apt. 13-1C,
Ithaca, NY 14850 (US). **CHESTNUT, John** [US/US];
1839 Valencia Avenue, Carlsbad, CA 92008 (US).

(21) International Application Number:
PCT/US2005/005763

(74) Agents: **SIRA, Serge** et al.; Katten Muchin Zavis Rosen-
man, 1025 Thomas Jefferson Street, NW, East Lobby, Suite
700, Washington, DC 20007-5201 (US).

(22) International Filing Date: 24 February 2005 (24.02.2005)

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/548,092 27 February 2004 (27.02.2004) US

(71) Applicants (for all designated States except US): **THE
TRUSTEES OF PRINCETON UNIVERSITY** [US/US];
Office of Technology Licensing & Intellectual Property,
Princeton University, 4 New South Building, Princeton, NJ
08540 (US). **INVITROGEN CORPORATION** [US/US];
1600 Faraday Avenue, Carlsbad, CA 92008 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WOOD, David, W.**

[Continued on next page]

(54) Title: SELF-CLEAVING AFFINITY TAGS AND METHODS OF USE

Cleaving Rate Studies

(Cleaving at pH 7.0 for 0, 1, 2, 4, 8 and 22 hrs)

ΔI-CM

Topo

Gateway

Gateway+Topo



WO 2005/086654 A3

(57) Abstract: The present invention relates to compositions and methods relating to development of modified inteins comprising one or more topoisomerase recognition sequences and the corresponding topoisomerase proteins and/or one or more recombination sites and the corresponding recombination proteins systems for use in affinity-based protein expression systems.



- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG). — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*
- (88) **Date of publication of the international search report:** 29 December 2005

Published:

- *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.